

Title (en)  
A combustion apparatus

Title (de)  
Verbrennungsvorrichtung

Title (fr)  
Appareil de combustion

Publication  
**EP 2400222 A1 20111228 (EN)**

Application  
**EP 10167460 A 20100628**

Priority  
EP 10167460 A 20100628

Abstract (en)  
The present invention discloses a combustion apparatus 100, which comprises a first device 10 for mixing a fuel with an oxidant, a combustion chamber 12 in which combustion of the fuel/oxidant mix takes place, a pre-chamber 14 located between the first device 10 and the combustion chamber 12, wherein the first device 10 is adapted for outputting the oxidant or the fuel or the fuel/oxidant mix to the pre-chamber 14 and a second device 16 for outputting a gas flow 20 into the pre-chamber 14, wherein the second device 16 is located upstream of the first device 10. With a combustion apparatus 100 according to the present invention an enhancement of the stability of the combustion and reduction of the emissions can be realized.

IPC 8 full level  
**F23R 3/28** (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP US)  
**F02C 3/00** (2013.01 - US); **F23R 3/286** (2013.01 - EP US); **F23R 3/343** (2013.01 - EP US); **F23D 2900/00015** (2013.01 - EP US)

Citation (applicant)  
EP 0660038 B1 19980520 - ROLLS ROYCE PLC [GB]

Citation (search report)  
• [X] EP 0728989 A2 19960828 - EUROP GAS TURBINES LTD [GB]  
• [X] DE 102008019117 A1 20091022 - MAN TURBO AG [DE]  
• [X] GB 2336663 A 19991027 - ALSTOM GAS TURBINES LTD [GB]  
• [X] WO 2009126534 A1 20091015 - GEN ELECTRIC [US], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2400222 A1 20111228**; CN 102959334 A 20130306; EP 2545325 A1 20130116; US 2013205748 A1 20130815;  
WO 2012000732 A1 20120105

DOCDB simple family (application)  
**EP 10167460 A 20100628**; CN 201180032412 A 20110531; EP 11723053 A 20110531; EP 2011058911 W 20110531;  
US 201113696855 A 20110531